

PULSE SHAPING SIGNALS FOR ULTRAWIDEBAND COMMUNICATION

Abstract

An ultrawideband radio frequency pulse is generated by shaping a carrier
5 signal having a selected frequency with a window function. The shaped carrier is
gated to produce the ultrawideband pulse. In further embodiments, the window
function comprises a sinusoidal function, and the ultrawideband pulse is formed via
a mixer and a CMOS radio frequency switch.

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